Practitioner's Docket No. NORTH-390A /A-2241 PATENT
COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)
As a below named inventor, I hereby declare that:
TYPE OF DECLARATION
This declaration is of the following type:
(check one applicable item below)
ဩ original.
☐ design.
supplemental.
NOTE: If the declaration is for an International Application being filed as a divisional, continuation of continuation-in-part application, do <u>not</u> check next item; check appropriate one of last three items.
national stage of PCT.
NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL CONTINUATION OR C-I-P.
NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of the inventors named in the prior application.
☐ divisional.
continuation.
NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements—nonprovisional application).
☐ continuation-in-part (C-I-P).
INVENTORSHIP IDENTIFICATION
WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted
My residence, post office address and citizenship are as stated below, next to my name I believe that I am the original, first and sole inventor (if only one name is listed below) of an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:
TITLE OF INVENTION
RUGGED SHOCK-RESISTANT BACKPLANE FOR EMBEDDED SYSTEMS



the specification of which:

(complete (a), (b), or (c))

(a) 🖸	I is attached hereto.
NOTE:	"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing
	"(2) name of inventor(s), and attorney docket number which was on the specification as filed or
	"(3) name of inventor(s), and title which was on the specification as filed."
	Notice of July 13, 1995 (1177 O.G. 60).
(b) [	] was filed on, as ☐ Serial No. 0 / or ☐
	and was amended on (if applicable).
NOTE:	Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456)
	"(B) serial number and filing date;
	"(C) attorney docket number which was on the specification as filed;
	"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
	"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absen any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
	M.P.E.P. § 601.01(a), 7th Ed.
(c) [	was described and claimed in PCT International Application No and as
	amended under PCT Article 19 on (if any).
	(ii diy).

(Declaration and Power of Attorney [1-1]-page 2 of 7)

### SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

	3
(cc	emplete the following where a supplemental declaration is being submitted)
	I hereby declare that the subject matter of the
	☐ attached amendment
	amendment filed on
•	t of my/our invention and was invented before the filing date of the original on, above-identified, for such invention.
ACK	OWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
	by state that I have reviewed and understand the contents of the above-identified ation, including the claims, as amended by any amendment referred to above.
	owledge the duty to disclose information, which is material to patentability as in 37, Code of Federal Regulations, § 1.56,
	(also check the following items, if desired)
ĽΣ	and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
,	in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
	PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE:	
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R.
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)—(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's te or any PCT international application(s) designating at least one country other than the States of America filed by me on the same subject matter having a filing date
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's reor any PCT international application(s) designating at least one country other than the United States of America listed that of the application(s) of which priority is claimed.  (complete (d) or (e))
I herel of any fo applicati below a certificat the Unito before the	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's reor any PCT international application(s) designating at least one country other than the States of America filed by me on the same subject matter having a filing date that of the application(s) of which priority is claimed.  (complete (d) or (e))

priority check item (e), enter the details below and make the priority claim.

# PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	i •	CLAIMED USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
CLAIM FOR	BENEFIT OF PRIOR U.		APPLICA	TION(S)
•	the benefit under Title 35, al application(s) listed below		§ 119(e) c	f any Unit

PROVISIONAL APPLICATION NUMBER	FILING DATE
/	
/	
/	

# CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. § 120

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

(Declaration and Power of Attorney [1-1]-page 4 of 7)

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7-

<del></del>				
	4.00			
NOTE:	the basis for this application entering divisional, or continuation-in-part, the	onths from the filing date of this application is a PCT filing forming the United States as (1) the national stage, or (2) a continuation, in also complete ADDED PAGES TO COMBINED DECLARATION IVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit is under 35 U.S.C. § 120.		
	POWE	R OF ATTORNEY		
		itioner(s) to prosecute this application and transact ark Office connected therewith.		
(list name and registration number) Terry J. Anderson, Esq., Reg. No. 24,271; Karl J. Hoch, Jr., Reg. No. 34,18 Kit M. Stetina, Reg. No. 29,445; Bruce B. Brunda, Reg. No. 28,497; Mark B. Garred, Reg. No. 34,823; William J. Brucker, Reg. No. 35,462; Matthew A. Newboles, Reg. No. 36,224; Thomas C. Naber, Reg. No. 26,777; Eric L. Tanezaki, Reg. No. 40,196; (check the following item, if applicable)				
. [		ioner(s) associated with the Customer Number prothis application and to transact all business in the ce connected therewith.		
[		claration and power of attorney, is the authorization tioner(s) to accept and follow instructions from my		
SEND C	ORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: (Name and telephone number)		
C	Address			
Terry J. Ande NORTHROP GRUM 1840 Century Los Angeles,	MAN CORPORATION Park East	Terry J. Anderson, Esq. (310) 332-5666		
•	Customer Number	-		

FORM 1-1



#### **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

#### SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided <u>each</u> declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997,

Full name of sole or first inventor. Nelson Shannon Mary (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature \_ \_ Country of Citizenship <u>U.S.A</u> Residence 5122 North Natoma Avenue, Chicago, IL Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656 Full name of second joint inventor, if any Joseph Richard (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature Country of Citizenship Bartlett 456 Harvard Lane. Residence \_ Post Office Address 456 Harvard Lane 60103

Mark (GIVEN NAME)	(MIDDLE INITIAL OR NAME)	Hischke FAMILY (OR LAST NAME)	
Inventor's signature			
Date	Country of Citizenship	Ú.S.A.	
Residence 4 Walnut L	ane, Algonquin, IL 60102		
Post Office Address 4	Walnut Lane, Algonquin, IL	60102	

(Declaration and Power of Attorney [1-1]—page 6 of 7)

(Rel.79—499 Pub.605) FORM 1-1 1-10

(check proper box(es)	for any or	f the following	added	page(s)
that form	a part of	this declaration	n)	

Signature for fourth and subsequent joint inventors. Number of pages added
• • •
Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
• • •
Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
• • •
Added page for <b>signature</b> by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
• • •
Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
□ Number of pages added
• • •
Authorization of practitioner(s) to accept and follow instructions from representative.
• • •
Of the further pages form a part of this Declaration

(if no further pages form a part of this Declaration, then end this Declaration with this page and check the following item)

XX This declaration ends with this page.

Practitioner's Docket No. \_ NORTH- 390A /A- 2241 PATENT COMBINED DECLARATION AND POWER OF ATTORNEY (ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P) As a below named inventor, I hereby declare that: TYPE OF DECLARATION This declaration is of the following type: (check one applicable item below) Original. design. supplemental. NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items. national stage of PCT. NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P. NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application

### INVENTORSHIP IDENTIFICATION

NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements

declaration in the continuation or divisional application being filed on behalf of the same or fewer of

the inventors named in the prior application.

— nonprovisional application).□ continuation-in-part (C-I-P).

divisional.continuation.

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

#### TITLE OF INVENTION

RUGGED	SHOCK-RESISTANT	BACKPLANE	FOR	EMBEDDED	SYSTEMS



the specification of which:

(complete (a), (b), or (c))

(a) U	y is attached hereto.
NOTE:	"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing,
	"(2) name of inventor(s), and attorney docket number which was on the specification as filed, or
	"(3) name of inventor(s), and title which was on the specification as filed."
	Notice of July 13, 1995 (1177 O.G. 60).
(b) [	was filed on, as $\square$ Serial No. 0 /
	and was amended on (if applicable).
NOTE:	Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.
NOTE:	"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:
	"(A) application number (consisting of the series code and the serial number, e.g., 08/123,456),
	"(B) serial number and filing date;
	"(C) attorney docket number which was on the specification as filed;
	"(D) title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or
	"(E) title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number, e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."
	M.P.E.P. § 601.01(a), 7th Ed.
(c) [	was described and claimed in PCT International Application No.
	amended under PCT Article 19 on (if any).
	(Declaration and Power of Attorney [1-1]—page 2 of 7

(Rel.79—4/99 Pub.605) FORM 1-1 1—6

## SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

(complete the following where a supplemental declaration is being submitted)
☐ I hereby declare that the subject matter of the
attached amendment
amendment filed on
was part of my/our invention and was invented before the filing date of the original application, above-identified, for such invention.
ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,
(also check the following items, if desired)
and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).
I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.
(complete (d) or (e))
(d) 🖄 no such applications have been filed.
(e) ☐ such applications have been filed as follows.
NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

# PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	1	CLAIMED 7 USC 119
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
	n the benefit under Title 35, lal application(s) listed below:		9 119(e) C	or any United
States provision	al application(s) listed below:  APPLICATION NUMBER		FILING I	
States provision  PROVISIONAL /	al application(s) listed below:			
PROVISIONAL/	al application(s) listed below:  APPLICATION NUMBER	LIER US/PCT APPI	FILING E	DATE

(Declaration and Power of Attorney [1-1]---page 4 of 7)

Rel 79-4/99	Pub.605)	FORM 1-1	1-8

ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS

-		MONTHS FOR DESIGN) P	RIOR TO THIS U.S. APPLICATION
-			
-	ti d A	ne basis for this application entering the ivisional, or continuation-in-part, then al	is from the filing date of this application is a PCT filing forming United States as (1) the national stage, or (2) a continuation, so complete ADDED PAGES TO COMBINED DECLARATION IONAL, CONTINUATION OR C-I-P APPLICATION for benefit order 35 U.S.C. § 120.
		POWER	OF ATTORNEY
í	-	y appoint the following practitions in the Patent and Trademark	ner(s) to prosecute this application and transact Office connected therewith.
Kit M. S Mark B. Matthew	tetina, Garred, A. Newb	on, Esq., Reg. No. 24,27 Reg. No. 29,445; Bruce Reg. No. 34,823; Willia Joles, Reg. No. 36,224; T	Tregistration number) 1; Karl J. Hoch, Jr., Reg. No. 34,181; B. Brunda, Reg. No. 28,497; m J. Brucker, Reg. No. 35,462; homas C. Naber, Reg. No. 26,777; ving item, if applicable)
			er(s) associated with the Customer Number pro- s application and to transact all business in the connected therewith.
			ration and power of attorney, is the authorization ner(s) to accept and follow instructions from my
;	SEND CO	RRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: (Name and telephone number)
	凶	Address	
NORTHROP 1840 Cen	GRUMMA Stury Pa	on, Esq. N CORPORATION rk East N 90067-2199	Terry J. Anderson, Esq. (310) 332-5666
		Customer Number	

#### DECLARATION



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

#### SIGNATURE(S)

- NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.
- NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3).
- NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the

# executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997, Full name of sole or first inventor Shannon ·Nelson Mary FAMILY (OR LAST NAME) (GIVEN NAME) Inventor's signature Country of Citizenship \_\_U.S.A. Residence 5122 North Natoma Avenue, Chicago, IL 60656 Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656 Full name of second joint inventor, if any Richard Paul (MIDDLE INITIAL OR NAME) (GIVEN NAME) FAMILY (OR LAST NAME) Inventor's signature \_ \_ Country of Citizenship <u>U.S.A.</u> Date \_\_ Residence 456 Harvard Lane, Bartlett, IL Post Office Address 456 Harvard Lane, Bartlett. 60103 Full name of third joint inventor, if any Hischke (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature \_ \_\_\_ Country of Citizenship \_\_U.S.A Residence 4 Walnut Lane, Algonouin, IL 4 Walnut Lane, Algonquin, IL 60102 Post Office Address

(Declaration and Power of Attorney [1-1]-page 6 of 7)

FORM 1-1 (RcL79-4/99 Pub.605)

(check proper box(es) for any or	f the	following	added	page(s)
that form a part of	this	declaratio	n)	

Signature for fourth and subsequent joint inventors. Number of pages added
• • •
Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
• • •
Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
• • •
Added page for <b>signature</b> by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
• • •
Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
□ Number of pages added
• • •
Authorization of practitioner(s) to accept and follow instructions from representative.
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(if no further pages form a part of this Declaration, then end this Declaration with this page and check the following item)

XX This declaration ends with this page.

Practitioner's Docket No. NORTH-390A /A-2241 PATENT
COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)
As a below named inventor, I hereby declare that:
TYPE OF DECLARATION
This declaration is of the following type:
(check one applicable item below)
🖄 original.
☐ design.
☐ supplemental.
NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do <u>not</u> check next item; check appropriate one of last three items.
☐ national stage of PCT.
NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.
NOTE: See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of the inventors named in the prior application.
☐ divisional.
☐ continuation.
NOTE: Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements—nonprovisional application).
☐ continuation-in-part (C-I-P).
INVENTORSHIP IDENTIFICATION
WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.  My recidence, post office address and citizenship are as stated below, payt to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter

TITLE OF INVENTION

RUGGED SHOCK-RESISTANT BACKPLANE FOR EMBEDDED SYSTEMS

that is claimed, and for which a patent is sought on the invention entitled:

### (Declaration and Power of Attorney [1-1]—page 1 of 7)



the specification of which:

(complete (a), (b), or (c))

not accorded a filing date by being referred to in the declaration. Accordingly, the amendments are those filed with the application papers or, in the case of a supplemental declaration, a amendments claiming matter not encompassed in the original statement of invention or claid 37 C.F.R. § 1.67.		
filing date with a specification are acceptable as minimums for identifying a specification and cor with any one of the items below will be accepted as complying with the identification require 37 CFR 1.63:  "(1) name of inventor(s), and reference to an attached specification which is both attached and or declaration at the time of execution and submitted with the oath or declaration or  "(2) name of inventor(s), and attorney docket number which was on the specification or  "(3) name of inventor(s), and title which was on the specification as filed."  Notice of July 13, 1995 (1177 O.G. 60).  (b) was filed on		X is attached hereto.
the oath or declaration at the time of execution and submitted with the oath or declaration  "(2) name of inventor(s), and attorney docket number which was on the specification or  "(3) name of inventor(s), and title which was on the specification as filed."  Notice of July 13, 1995 (1177 O.G. 60).  (b) Was filed on	able as minimums for identifying a specification and compliance	filing date with a specification are with any one of the items below
"(3) name of inventor(s), and title which was on the specification as filed."  Notice of July 13, 1995 (1177 O.G. 60).  (b) was filed on, as Serial No. 0 / and was amended on(if applicable).  NOTE: Amendments filed after the original papers are deposited with the PTO that contain new mnot accorded a filing date by being referred to in the declaration. Accordingly, the amendments are those filed with the application papers or, in the case of a supplemental declaration, a amendments claiming matter not encompassed in the original statement of invention or claid 37 C.F.R. § 1.67.  NOTE: "The following combinations of information supplied in an oath or declaration filed after the file are acceptable as minimums for identifying a specification and compliance with any one of the below will be accepted as complying with the identification requirement of 37 CFR 1.63:  "(A) application number (consisting of the series code and the serial number, e.g., 08/1 "(B) serial number and filing date;  "(C) attomey docket number which was on the specification as filed;  "(D) title which was on the specification as filed and reference to an attached specification is both attached to the oath or declaration at the time of execution and submitted with or declaration; or  "(E) title which was on the specification as filed and accompanied by a cover letter according in the application for which it was intended by either the application number (confidentifying the application for which it was intended by either the application number (confidentifying the application for which it was intended by either the application number (confidentifying the application for which it was intended by either the application number and filing date any statement(s) to the contrary, it will be presumed that the application filed in the PT	erence to an attached specification which is both attached to execution and submitted with the oath or declaration on filing	"(1) name of inventor(s), a the oath or declaration at the
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M.P.E.P. § 601.01(a), 7th Ed.		M.P.E.P. § 601.01(a), 7th
(c) was described and claimed in PCT International Application	ned in PCT International Application No.	was described and
amended under PCT Article 19 on (if any)		amended under PCT Ar

(Declaration and Power of Attorney [1-1]—page 2 of 7)

(Rel.79—4/99 Pub.605) FORM 1-1 1—(

#### SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

(cc	omplete the following where a supplemental declaration is being submitted)
	I hereby declare that the subject matter of the
	☐ attached amendment
	amendment filed on
	t of my/our invention and was invented before the filing date of the original on, above-identified, for such invention.
ACKI	NOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
	by state that I have reviewed and understand the contents of the above-identified ation, including the claims, as amended by any amendment referred to above.
	nowledge the duty to disclose information, which is material to patentability as in 37, Code of Federal Regulations, § 1.56,
	(also check the following items, if desired)
<u>(X</u>	and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and
	in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.
•	PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))
NOTE:	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R.
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)—(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's te or any PCT international application(s) designating at least one country other than the States of America filed by me on the same subject matter having a filing date
I herel of any fo applicati below a certificat the Unite	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's term of the application and application(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's term of the application(s) of which priority is claimed.  (complete (d) or (e))
I herel of any fo applicati below a certificat the Unito before the	"The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).  By claim foreign priority benefits under Title 35, United States Code, §§ 119(a)–(d) preign application(s) for patent or inventor's certificate or of any PCT international on(s) designating at least one country other than the United States of America listed and have also identified below any foreign application(s) for patent or inventor's ter or any PCT international application(s) designating at least one country other than the same subject matter having a filing date that of the application(s) of which priority is claimed.  (complete (d) or (e))

priority check item (e), enter the details below and make the priority claim.

# PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)—(d)

INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119	
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
			☐ YES	NO 🗆
	n the benefit under Title 35, lal application(s) listed below:		§ 119(e) c	of any United
States provision	al application(s) listed below:  APPLICATION NUMBER		§ 119(e) o	·
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(Declaration and Power of Attorney [1-1]---page 4 of 7)

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FORM 1-1	
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ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

(Rel.79-4/99 Pub.605)-

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NOTE:	divisional, or continuation-in-part,	ing the United States as (1) the na then also complete ADDED PAGE. R DIVISIONAL, CONTINUATION O	ational stage, or (2) a continuation, S TO COMBINED DECLARATION
	POV	VER OF ATTORNEY	•
	by appoint the following property in the Patent and Trad		
Kit M. Stetina Mark B. Garred Matthew A. New	rson, Esq., Reg. No. 2 a, Reg. No. 29,445; Br d, Reg. No. 34,823; Wi wboles, Reg. No. 36,22 aki. Reg. No. 40.196:	uce B. Brunda, Reg. N lliam J. Brucker, Reg	No. 28,497; g. No. 35,462; Reg. No. 26,777;
С	•	• •	the Customer Number pro- ransact all business in the
C	Attached, as part of this of the above-named pra representative(s).		ttomey, is the authorization follow instructions from my
SEND C	ORRESPONDENCE TO		CT TELEPHONE CALLS TO: ne and telephone number)
C	Address		
Terry J. Ander NORTHROP GRUM 1840 Century I Los Angeles, (	MAN CORPORATION Park East		J. Anderson, Esq. 332-5666
	Customer Number		
<del></del>			

#### DECLARATION



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

#### SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 CFR § 1.63(a)(3). NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997, Full name of sole or first inventor Shannon Mary Nel<u>son</u> (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature \_ \_ Country of Citizenship <u>U.S.A.</u> Residence 5122 North Natoma Avenue, Chicago, IL 60656 Post Office Address 5122 North Natoma Avenue, Chicago, IL 60656 Full name of second joint inventor, if any Richard Joseph (GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME) Inventor's signature \_ U.S.A. Country of Citizenship \_\_\_ Residence 456 Harvard Lane, Bartlett, IL 60103 Post Office Address 456 Harvard Lane, Bartlett, IL 60103 Full name of third joint inventor, if any Hischke Mark (GIVEN NAME) FAMILY (OR LAST NAME) Inventor's signature Date 3/20/2000 Country of Citizenship \_\_\_\_\_\_\_\_\_ Residence 4 Walnut Lane, Algonouin, IL 60102 4 Walnut Lane, Algonquin, IL 60102 Post Office Address

(Declaration and Power of Attorney [1-1]—page 6 of 7)

(Rcl.79—499 Pub.605) FORM 1-1 1—10

(check proper box(es) for any of the following added page(s) that form a part of this declaration)

Signature for fourth and subsequent joint inventors. Number of pages added
• • •
Signature by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. Number of pages added
• • •
Signature for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. Number of pages added
• • •
Added page for <b>signature</b> by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)
• • • <sub>.</sub>
Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
□ Number of pages added
• • •
Authorization of practitioner(s) to accept and follow instructions from representative.
•••
• • •
(if no further pages form a part of this Declaration,

then end this Declaration with this page and check the following item)

XX This declaration ends with this page.